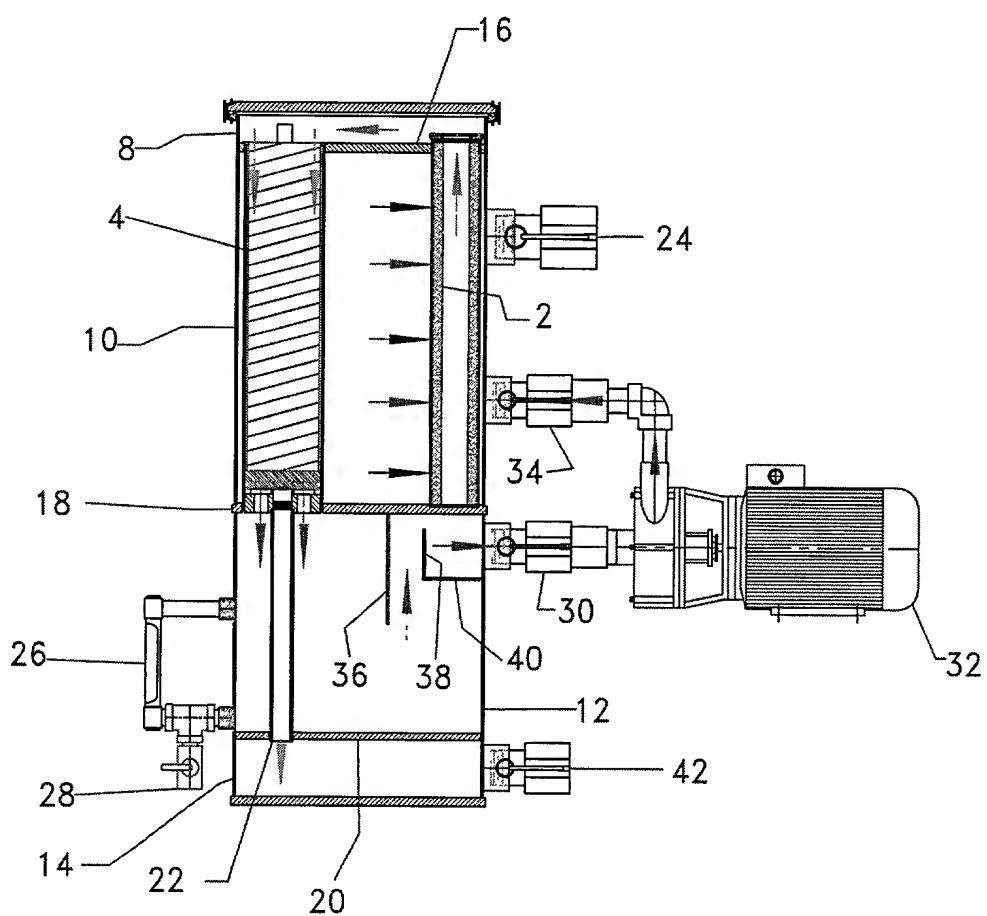


TOP SECTIONAL VIEW



CROSS SECTIONAL VIEW

FIG. 1

SPIRAL WOUND DESIGN CONCEPT



Filtration Solutions, Inc.

DATE	SIZE	PROJECT	DRAWING NUMBER	REV.
10/26/01	A	8004	A99-089-SA-01/A	B

SCALE - DRWN BY: THM

APPRVD BY: GY

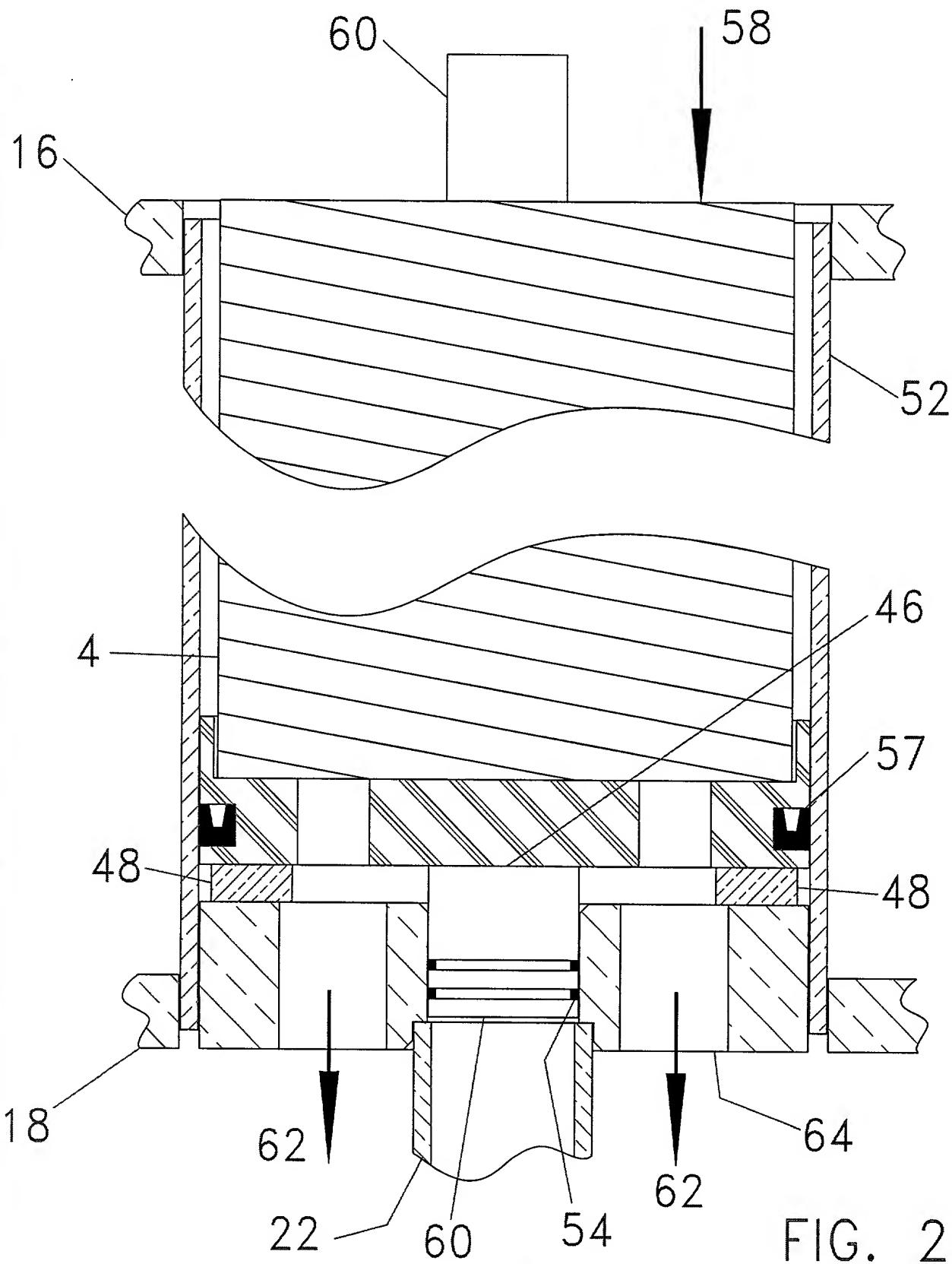


FIG. 2A

SPIRAL WOUND DESIGN CONCEPT



Filtration Solutions, Inc.

SCALE	DRWN BY: THM	APPRVD BY: GY	DATE	SIZE	PROJECT	DRAWING NUMBER	REV.
-			10/26/01	A	8004	A99-089-SA-01/B	B

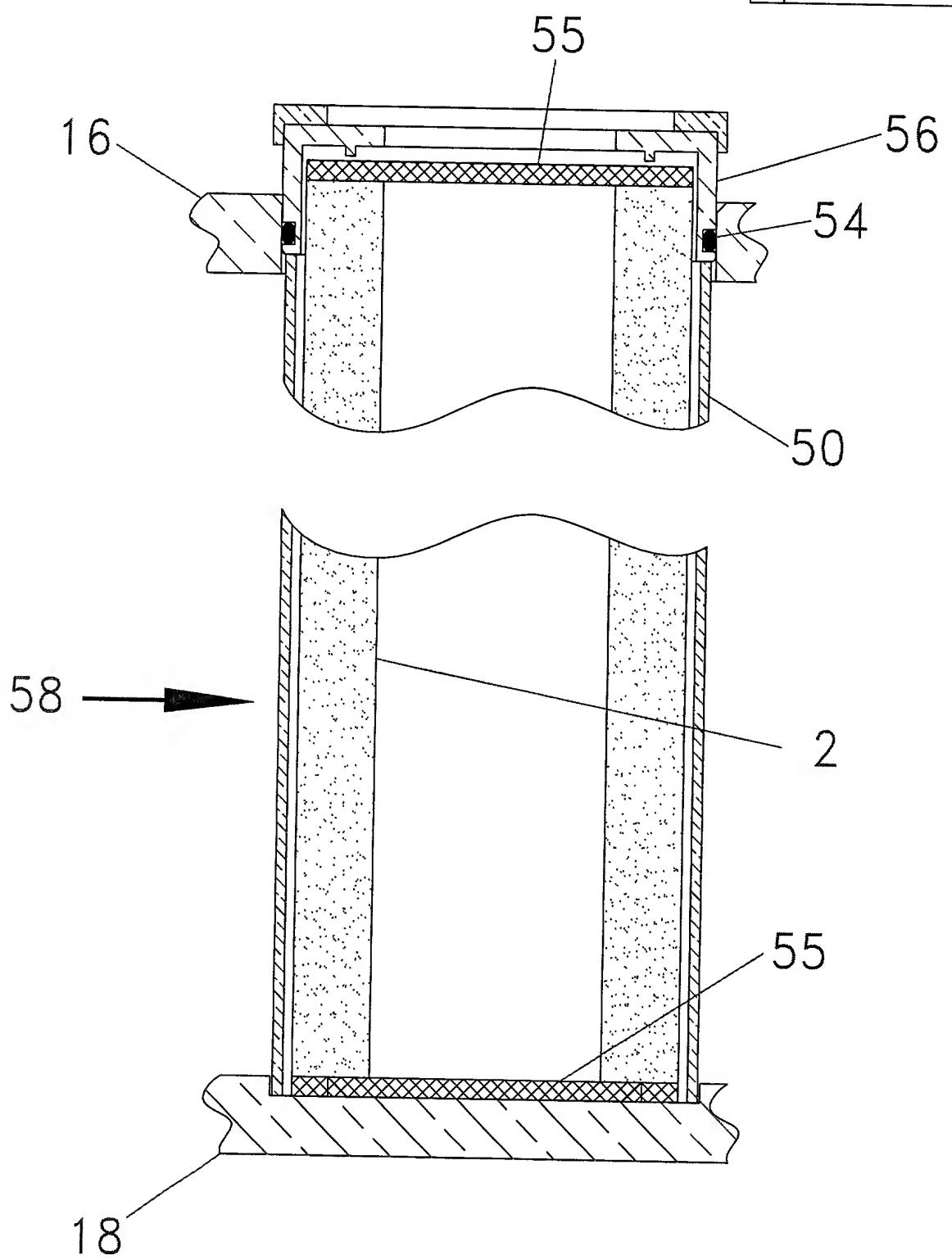


FIG. 2B

SPIRAL WOUND DESIGN CONCEPT

**Filtration Solutions, Inc.**

SCALE	DRWN BY: THM	APPRVD BY: GY	DATE 10/26/01	SIZE A	PROJECT 8004	DRAWING NUMBER A99-089-SA-01/C	REV. B
4	3	2	↑	1			

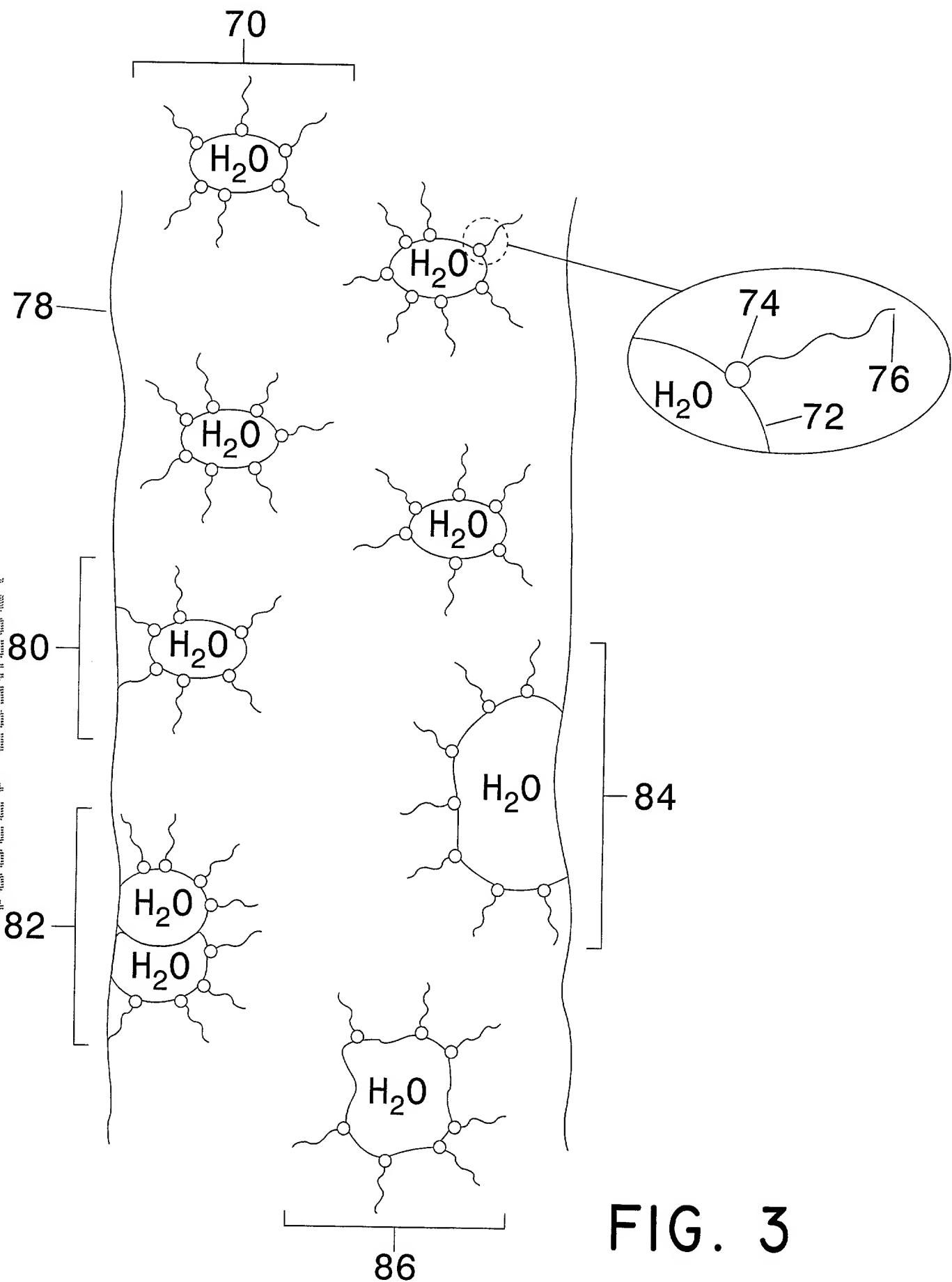


FIG. 3

CROSS-FLOW

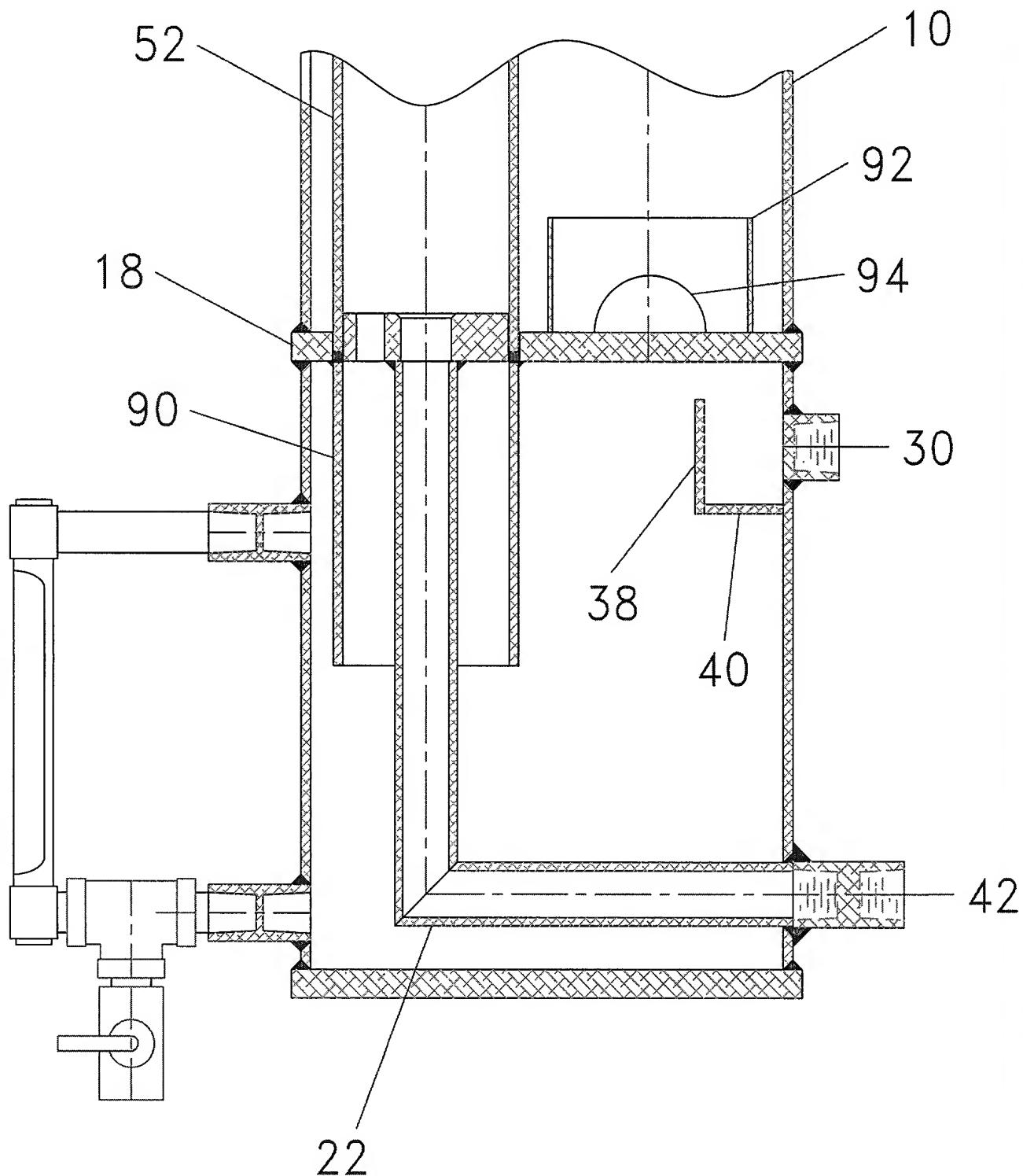


FIG. 4

SPIRAL WOUND DESIGN CONCEPT

SCALE - DRWN BY: THM

APPRVD BY: GY

**Filtration Solutions, Inc.**

DATE 10/26/01	SIZE A	PROJECT 8004	DRAWING NUMBER A99-089-SA-01/E	REV. B
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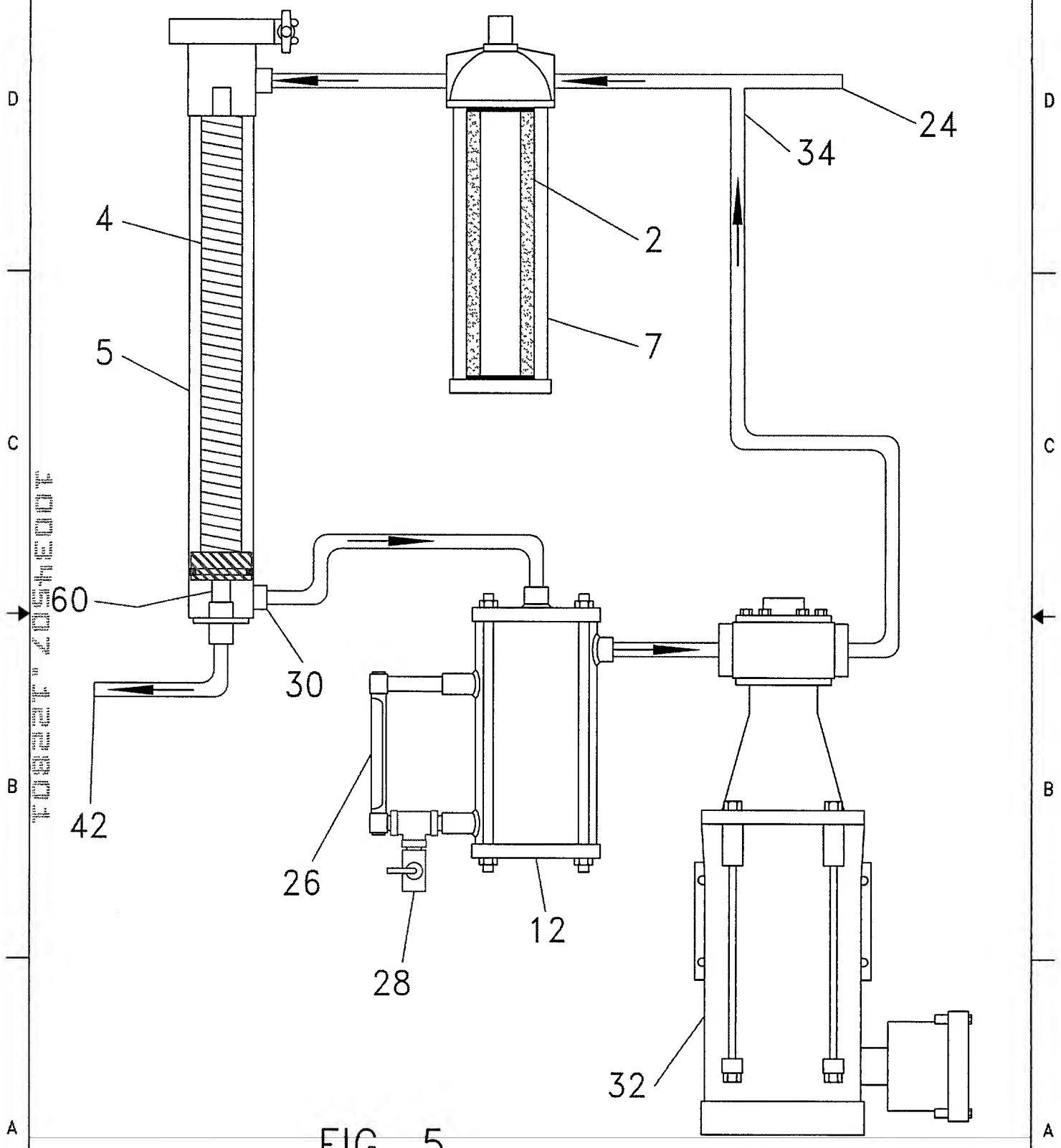


FIG. 5

SPIRAL WOUND DESIGN CONCEPT

**Filtration Solutions, Inc.**

SCALE - DRWN BY: THM

APPRVD BY: GY

DATE	SIZE	PROJECT	DRAWING NUMBER	REV.
10/26/01	A	8004	A99-089-SA-01/F	B